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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,270	08/03/2001	Jurgen Kleinschmidt	8484-101-999	3472
7590 08/24/2004 PENNIE & EDMONDS LLP 1155 Avenue of the Americas			EXAMINER	
			WINKLER	WINKLER, ULRIKE
New York, NY 10036-2711			ART UNIT	PAPER NUMBER
			1648	

DATE MAILED: 08/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/923,270	KLEINSCHMIDT ET AL.
Office Action Summary	Examiner	Art Unit
	Ulrike Winkler	1648
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communical If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a rition. s, a reply within the statutory minimum of third period will apply and will expire SIX (6) MON. y statute, cause the application to be some A.F.	reply be timely filed iy (30) days will be considered timely. ITHS from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on	<u>13 May 2004</u> .	
2a)⊠ This action is FINAL . 2b)□	This action is non-final.	
3) Since this application is in condition for a closed in accordance with the practice ur	llowance except for formal matte nder <i>Ex parte Quayle</i> , 1935 C.D	ers, prosecution as to the merits is . 11, 453 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 13-27 is/are pending in the appl 4a) Of the above claim(s) is/are wires. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 13-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction as	thdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Exa 10) The drawing(s) filed on <u>September 13, 20</u>		objected to by the Examiner.
Applicant may not request that any objection t	o the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the c	orrection is required if the drawing(s ne Examiner. Note the attached	s) is objected to. See 37 CFR 1.121(d). Office Action or form PTO-152.
Priority under 35 U.S.C. § 119	,	
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in Ap priority documents have been r ureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 	B) Paper No(s)/	mmary (PTO-413) Mail Date, Domal Patent Application (PTO-152)

Application/Control Number: 09/923,270

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DETAILED ACTION

The Amendment filed September 10, 2003 (Paper No. 13) in response to the Office Action of March 11, 2003 is acknowledged and has been entered. Claims 13-27 are pending and are currently being examined.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

The objection of claims 13-27 to because of informalities relating to the AAV abbreviation is withdrawn.

The rejection of claims 13-20 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention **is withdrawn** in view of Applicant's amendment to the claims. Please note only some of the claim rejections are withdrawn in view of the amendments.

The rejection of claims 21-27 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention **is maintained** for reasons of record.

The rejection of claims 13 and 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Bett et al. (Proceeding of the National Academy of Science, 1994) is maintained for reasons of record.

Applicant's response has been fully considered but fails to persuade for the following reasons. In response to applicant's argument that the references fail to show certain features of

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AAV nucleic acid sequence) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The claims as written are drawn to an "adeno-associated viral nucleic acid". The "nucleic acid" can be interpreted to relate to single nucleotide (singular) or it could be interpreted to read on the entire adeno associated viral "nucleic acid sequence" (plural more than one nucleic acid). If the claims had been interpreted to read on the entire nucleic acid sequence the claims would have needed to be rejected because there would have been no written description for this in the specification. The specification indicates that the full light AAV sequence is 4680 nt, yet in the examples set forth the AAV sequence only comprises 4235 nt this is a discrepancy of 445 nt. Hence the "adeno-associated viral nucleic acid" that applicants are contemplating is not the entire AAV genome and is less than the entire genome yet there is no limit set on how much less can be considered and still fall within the claimed invention. It is not clear from the specification what part of the AAV genome are not to be included in the "adeno-associated viral nucleic acid". For purposes of the instant rejection the "adeno-associated viral nucleic acid" is interpreted to read on a single (one) nucleic acid and the nucleic acid sequence disclosed in Bett et al. comprise a single nucleic acid in common with AAV so that the disclosed sequence comprises an AAV nucleic acid and the helper nucleic acid sequences. Therefore, the instant invention remains rejected as being anticipated by Bett et al.

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The rejection of claims 13, 17-20 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bett et al. (Proceeding of the National Academy of Science, 1994) and Colosi (U.S. Patent No. 6,004,797) is maintained for reasons of record.

Applicant's response has been fully considered but fails to persuade for the following reasons. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the entire AAV nucleic acid sequence) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The claims as written are drawn to an "adeno-associated viral nucleic acid". The "nucleic acid" can be interpreted to relate to single nucleotide (singular) or it could be interpreted to read on the entire adeno associated viral "nucleic acid sequence" (plural more than one nucleic acid). If the claims had been interpreted to read on the entire nucleic acid sequence the claims would have needed to be rejected because there would have been no written description for this in the specification. The specification indicates that the full light AAV sequence is 4680 nt, yet in the examples set forth the AAV sequence only comprises 4235 nt this is a discrepancy of 445 nt between the wild type virus and the portion of the virus set out in example 1, from example 1 it is not clear what is missing form the sequence. Hence the "adeno-associated viral nucleic acid" that applicants are contemplating is not the entire AAV genome and is less than the entire genome yet there is no limit set on how much less can be considered and still fall within the claimed invention. It is not clear from the specification what part of the AAV genome are not to be included in the "adeno-associated viral nucleic acid". For purposes of the instant rejection the

"adeno-associated viral nucleic acid" is interpreted to read on a <u>single nucleic acid</u> and the nucleic acid sequence disclosed in Bett et al. comprise a single nucleic acid in common with AAV so that the disclosed sequence comprises an AAV nucleic acid and the helper nucleic acid sequences.

It would have been obvious at the time the invention was made to use an E1 deleted adenovirus type 5 in a 293 cell to produce recombinant AAV particles. The E1 deleted adenovirus in a 293 cell comprises all the necessary sequences set out in Colosi to produce the recombinant AAV particles, indicating that the combination is suitable for the purpose of producing AAV particles. Therefore, the instant invention is obvious over Bett et al. and Colosi.

Conclusion

Claims 13-27 are rejected.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Papers related this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG (November 15, 1989). The Group 1600 Official Fax number is: (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center representative whose telephone number is (571)-272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ulrike Winkler, Ph.D. whose telephone number is 571-272-0912. The examiner can normally be reached M-F, 8:30 am - 5 pm. The examiner can also be reached via email [ulrike.winkler@uspto.gov].

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel, can be reached at 571-272-0902.

DLAIKE WINKLER, PH.D.
PRIMARY EXAMINER 8/20/04